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L11: Entry 8 of 9   File: USPT   May 4, 1999

DOCUMENT-IDENTIFIER: US 5899992 A
TITLE: Scalable set oriented classifier

Detailed Description Text (24):
(4) optimization of the executions([16])

Detailed Description Text (69):
It is also possible for SQL to be extended to ensure that not only I/O is optimized
but also processor 102 utilization. Taking liberty with SQL standards, the
following query is written as a proposed SQL operator:

Detailed Description Text (83):
The new operator forms multiple groupings concurrently, and may allow further
optimization.

Detailed Description Text (92):
In case the outer-join operator is not supported, by performing simple set
operations such as EXCEPT and UNION, the SLIM classifier 114 can form a view
DIM.sub.i with the same schema as DIM.sub.i first. For each possible split value on
attribute i and each possible class label of each node, there is a row in DIM.sub.i
that gives the number of rows belonging to this leaf node that have such a value on
attribute i and such a class label. Note that DIM.sub.i is a superset of DIM.sub.i
and the difference between them are those rows with a count 0. After DIM.sub.i is
generated, the SLIM classifier 114 performs a self-join on DIM.sub.i to create the
UP table as follow:

Other Reference Publication (1):
Ganski, R. A., et al., "Optimization of Nested SQL Queries Revisited", Proceedings
of Association for Computing Machinery Special Interest Group on Management of
Data, May 27-29, 1987, pp. 23-33.

Freeform Search

Database:

```
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
```

Term:

```
L10 and optimiz$
```

Display: `50` **Documents in** **Display Format:** `FRO` **Starting with Number** `1`

Generate: ○ **Hit List** ◉ **Hit Count** ○ **Side by Side** ○ **Image**

[Search] [Clear] [Interrupt]

Search History

DATE: Friday, July 30, 2004   <u>Printable Copy</u>   <u>Create Case</u>

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
DB=USPT; PLUR=YES; OP=OR			
<u>L11</u>	L10 and optimiz$	9	<u>L11</u>
<u>L10</u>	L9 and union	16	<u>L10</u>
<u>L9</u>	(self near Join)	50	<u>L9</u>
<u>L8</u>	L7 and (Join near operator$)	20	<u>L8</u>
<u>L7</u>	L5 and join	39	<u>L7</u>
<u>L6</u>	L5 and (self near join)	0	<u>L6</u>
<u>L5</u>	L4 and (707/$.ccls.)	45	<u>L5</u>
<u>L4</u>	union near operator$	93	<u>L4</u>
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
<u>L3</u>	L2 and (self near join)	8	<u>L3</u>
<u>L2</u>	L1 and (707/$.ccls.)	75	<u>L2</u>
<u>L1</u>	union near operator	162	<u>L1</u>

END OF SEARCH HISTORY